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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

the Application of: SASANO, Ryoichi, et al.

Group Art Unit: 2851

Serial No.: 10/594,546

Examiner: Not Yet Assigned

Filed: September 28, 2006

For: STATIONARY PHASE EXTRACTION CARTRIDGE

**LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Date: November 22, 2006

Sir:

The attention of the Patent and Trademark Office is hereby directed to a copy of the PCT Notification of Transmittal of Copies of Translation of the International Preliminary Report on Patentability attached herewith.

This Report is submitted herewith to be placed in the U.S. Patent and Trademark Office file of this case.

Respectfully submitted,

ARMSTRONG, KRATZ, QUINTOS,  
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PATENT TRADEMARK OFFICE

Enclosure: PCT Notification of Transmittal of Copies of Translation of the International Preliminary Report on Patentability

# PATENT COOPERATION TREATY

PCT/JP2005/005324

From the INTERNATIONAL BUREAU

## PCT

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II)  
OF THE PATENT COOPERATION TREATY  
(PCT Rules 44bis.3(c) and 72.2)

To:

YANAGINO, Takao  
Noskmard Building  
15-5 Miyahara 1-chome  
Yodogawa-ku  
Osaka-shi, Osaka 5320003  
JAPON

Date of mailing (day/month/year) <b>26 October 2006 (26.10.2006)</b>
Applicant's or agent's file reference <b>18029</b>
International application No. <b>PCT/JP2005/005324</b>
Applicant <b>Saika Technological Institute Foundation et al</b>

### IMPORTANT NOTIFICATION

International filing date (day/month/year)  
**24 March 2005 (24.03.2005)**

#### 1. Transmittal of the translation to the applicant.

- The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).
- The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

#### 2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

#### 3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

**Yoshiko Kuwahara**

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference <b>18029</b>	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. <b>PCT/JP2005/005324</b>	International filing date ( <i>day/month/year</i> ) <b>24 March 2005 (24.03.2005)</b>	Priority date ( <i>day/month/year</i> ) <b>31 March 2004 (31.03.2004)</b>	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant <b>Saika Technological Institute Foundation</b>			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- |                                     |                     |   |
|-------------------------------------|---------------------|---|
| <input checked="" type="checkbox"/> | <b>Box No. I</b>    | Basis of the report   |
| <input type="checkbox"/>            | <b>Box No. II</b>   | Priority  |
| <input type="checkbox"/>            | <b>Box No. III</b>  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | <b>Box No. IV</b>   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | <b>Box No. V</b>    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | <b>Box No. VI</b>   | Certain documents cited   |
| <input type="checkbox"/>            | <b>Box No. VII</b>  | Certain defects in the international application  |
| <input type="checkbox"/>            | <b>Box No. VIII</b> | Certain observations on the international application   |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

	Date of issuance of this report <b>19 October 2006 (19.10.2006)</b>
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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer
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**Yoshiko Kuwahara**

e-mail: pt07@wipo.int

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

*TRANSLATION*  
**PCT**

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

		Date of mailing (day/month/year)
Applicant's or agent's file reference <b>18029</b>		<b>FOR FURTHER ACTION</b> See paragraph 2 below
International application No. <b>PCT/JP2005/005324</b>	International filing date (day/month/year) <b>24.03.2005</b>	Priority date (day/month/year) <b>31.03.2004</b>
International Patent Classification (IPC) or both national classification and IPC		
Applicant <b>Saika Technological Institute Foundation</b>		

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

**CORRECTED  
VERSION**

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/JP2005/005324

Box No. I	Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.	
<input type="checkbox"/> This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).	
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:	
a. type of material	
<input type="checkbox"/> a sequence listing	
<input type="checkbox"/> table(s) related to the sequence listing	
b. format of material	
<input type="checkbox"/> in written format	
<input type="checkbox"/> in computer readable form	
c. time of filing/furnishing	
<input type="checkbox"/> contained in the international application as filed.	
<input type="checkbox"/> filed together with the international application in computer readable form.	
<input type="checkbox"/> furnished subsequently to this Authority for the purposes of search.	
3. <input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
4. Additional comments:	

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/JP2005/005324

Box No. V	<b>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</b>																			
<p><b>1. Statement</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Novelty (N)</td> <td style="width: 50%;">Claims</td> <td style="width: 25%; text-align: right;">YES</td> </tr> <tr> <td></td> <td>1 - 7</td> <td style="text-align: right;">NO</td> </tr> <tr> <td style="vertical-align: top;">Inventive step (IS)</td> <td>Claims</td> <td style="text-align: right;">YES</td> </tr> <tr> <td></td> <td>1 - 7</td> <td style="text-align: right;">NO</td> </tr> <tr> <td style="vertical-align: top;">Industrial applicability (IA)</td> <td>Claims</td> <td style="text-align: right;">YES</td> </tr> <tr> <td></td> <td>1 - 7</td> <td style="text-align: right;">NO</td> </tr> </table> <p><b>2. Citations and explanations:</b></p> <p>Document 1: JP 6-201672 A (Hewlett Packard Co.), 22 July 1994  &amp; US 5439593 A</p> <p>Document 2: JP 2-99345 U (MANAC Inc.), 08 August 1990</p> <p>Document 3: JP 11-90102 A (Kokuritsu Koshu Eisei Incho), 06 April 1999</p> <p><b>Remarks:</b>  Regarding claims 1-7  Document 1 describes a fixed phase extraction cartridge in which an inflow side frit, a fixed phase filler, and an outflow side frit are provided from an upper side in a tube shaped cartridge structure whose upper end and lower end are opened, which is provided with a support portion that supports the lower side frit, and a coupled portion in which the lower end of the cartridge structure other than the upper end of the cartridge structure is inserted to a predetermined position and that is capable of supporting this state of insertion, wherein the coupled portion is constituted by an inner side taper surface having an outside diameter formed in a specific range upwardly in at least an inner surface of the insertion side cartridge and an outer side taper surface having an outside diameter formed in a specific range upwardly in at least an outer surface of the inserted side cartridge, wherein both the inner side taper and the outer side taper are formed having substantially equivalent inclination angles.  Documents 2 and 3 describe a fixed phase extraction cartridge that can be used consecutively in plurality.</p>			Novelty (N)	Claims	YES		1 - 7	NO	Inventive step (IS)	Claims	YES		1 - 7	NO	Industrial applicability (IA)	Claims	YES		1 - 7	NO
Novelty (N)	Claims	YES																		
	1 - 7	NO																		
Inventive step (IS)	Claims	YES																		
	1 - 7	NO																		
Industrial applicability (IA)	Claims	YES																		
	1 - 7	NO																		